

WHAT IS CLAIMED IS

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1. An information processing apparatus which has a
detection unit to detect a recording medium and initiates a program
read from the recording medium detected by the detection unit, the
information processing apparatus comprising:

10 an operation check unit performing an operation check
of the recording medium detected by the detection unit;

 an authentication check unit performing an
authentication check of the recording medium detected by the
detection unit; and

15 an error notification unit notifying an operator of an
error of the recording medium if at least one of a result of the
operation check and a result of the authentication check is an error.

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2. An information processing apparatus according to
claim 1 wherein the operation check unit is provided to inhibit the
recording medium from being set in an accessible state if the result
25 of the operation check is an error.

3. An information processing apparatus according to claim 1 wherein the authentication check unit is provided to inhibit reading of the program from the recording medium if the result of the authentication check is an error.

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4. An information processing apparatus according to claim 1 wherein the authentication check unit is provided to read a file used for the authentication check, from the recording medium which is set in an accessible state for initiating the program, and to perform the authentication check of the recording medium using the file.

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5. An information processing apparatus according to claim 4 wherein the authentication check unit performs the authentication check based on both an electronic signature, created from identification information and a configuration file of the recording medium, and an electronic signature, created from the program and model information of the apparatus.

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6. An information processing apparatus according to claim 1 wherein the error notification unit is provided to display descriptions of the error on a display unit of the apparatus if at least one of the result of the operation check and the result of the authentication check is an error.

7. An information processing apparatus according to claim 1 wherein the error notification unit is provided to display descriptions of the error on a display unit of a different information processing apparatus, which is connected to the information processing apparatus through a network, if at least one of the result of the operation check and the result of the authentication check is an error.

8. An information processing apparatus according to claim 6 wherein the error notification unit is provided to finish the displaying of the descriptions of the error in the display unit when the detection unit becomes impossible to detect the recording medium with which at least one of the result of the operation check

and the result of the authentication check is an error.

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9. An information processing apparatus according to claim 1 wherein the error notification unit is provided to notify the operator of occurrence of the error by transmitting an e-mail, containing descriptions of the error, to the operator, if at least one of the result of the operation check and the result of the authentication check is the error.

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10. An information processing apparatus according to claim 1 wherein the error notification unit is provided to cause a printing unit of the apparatus to print descriptions of the error if at least one of the result of the operation check and the result of the authentication check is the error.

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11. An information processing apparatus according to

claim 1 wherein the error notification unit is provided to notify an operator that a function of the program cannot be used, the program being not read from the recording medium with which at least one of the result of the operation check and the result of the authentication
5 check is an error.

10 12. An information processing apparatus according to claim 1 wherein the operation check unit is provided to set the recording medium in an accessible state if the result of the operation check is normal, and the authentication check unit is provided to
15 initiate the program read from the recording medium if the result of the authentication check is normal.

20 13. An information processing apparatus according to claim 12 wherein the program initiated by the authentication check unit performs at least one of an operation check and an authentication check of hardware or software used by the program, and the error notification unit is provided to notify the operator of
25 an error of the hardware or software if at least one of results of the

operation check and the authentication check of the hardware or software is an error.

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14. An information processing apparatus according to claim 1 wherein the detection unit is provided to detect occurrence of insertion of the recoding medium to and removal of the recording
10 medium from a recording medium slot of the apparatus.

15 15. An image forming apparatus which has a detection unit to detect a recording medium and initiates an image-formation-related program read from the recording medium detected by the detection unit, the image forming apparatus comprising:

20 an operation check unit performing an operation check of the recording medium detected by the detection unit;

an authentication check unit performing an authentication check of the recording medium detected by the detection unit; and

25 an error notification unit notifying an operator of an error of the recording medium if at least one of a result of the

operation check and a result of the authentication check is an error,
wherein the image forming apparatus reads the program
from the recording medium and initiates the read program if both the
result of the operation check and the result of the authentication
5 check are normal.

10 16. An image forming apparatus according to claim 15
wherein the error notification unit is provided to display
descriptions of the error on an operation panel of the apparatus if at
least one of the result of the operation check and the result of the
authentication check is an error.

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17. An image forming apparatus according to claim 16
20 wherein the error notification unit is provided to finish the
displaying of the descriptions of the error in the operation panel
when the detection unit becomes impossible to detect the recording
medium with which at least one of the result of the operation check
and the result of the authentication check is an error.

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18. An image forming apparatus according to claim 15
wherein the error notification unit is provided to notify the operator
of occurrence of the error by transmitting an e-mail, containing
descriptions of the error, to the operator, if at least one of the result
5 of the operation check and the result of the authentication check is
the error.

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19. An image forming apparatus according to claim 15
wherein the error notification unit is provided to cause a printing
unit of the apparatus to print descriptions of the error if at least one
of the result of the operation check and the result of the
15 authentication check is an error.

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20. An image forming apparatus according to claim 15
wherein the error notification unit is provided to control function
buttons to notify the operator of usability of each of multiple
functions of the apparatus in a visually distinguishable manner such
that lighting of buttons of currently usable functions of the
25 apparatus and lighting of buttons of currently unusable functions of

the apparatus are distinguishable from each other.

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21. An image forming apparatus according to claim 15
wherein the image forming apparatus further comprises hardware
resources used in image formation, programs performing image-
formation-related processing, and a platform provided between the
10 hardware resources and the programs to manage the hardware
resources which are shared by two or more of the programs.

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22. An error processing method for use in an 
information processing apparatus which has a detection unit to
detect a recording medium and initiates an image-formation-related
program read from the recording medium detected by the detection
20 unit, the error processing method comprising:

performing an operation check of the recording medium
detected by the detection unit;

performing an authentication check of the recording
medium detected by the detection unit; and

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notifying an operator of an error of the recording

medium if at least one of a result of the operation check and a result of the authentication check is an error.

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23. A computer-readable recording medium storing a
program embodied therein for causing a computer to perform:

detecting a recording medium;
10 performing an operation check of the detected recording
medium;
performing an authentication check of the detected
recording medium; and
notifying an operator of an error of the detected
15 recording medium if at least one of a result of the operation check
and a result of the authentication check is an error.

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